2.2

SDMS DocID 584545

REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION
FOR
ENVIRO-PLASTICS SITE
AUBURN, MASSACHUSETTS
FEBRUARY 13, 1995

Prepared For:

U.S. Environmental Protection Agency
Emergency Planning and Response Branch
60 Westview Street
Lexington, MA 02173

CONTRACT NO. 68-WO-0036

TDD NO. 01-9502-09

PCS NO. 1192

DC NO. 02554

Prepared By:

ROY F. WESTON, INC.
Technical Assistance Team
Region I

March 1995

TABLE OF CONTENTS

I. Preliminary Assessment/Site Investigation Forms

EPA REGION I
REMOVAL PRELIMINARY ASSESSMENT

Site Name and Location

Name: Enviro-Plastics Corp. Site **Location:** 15 Saint Mark Street
Town: Auburn **County:** Worcester **State:** Massachusetts

Site Status: ( )**NPL** (X)**NON-NPL** ( )**RCRA** ( )**TSCA**
(X)**ACTIVE** ( )**ABANDONED** ( )**OTHER**

(X)**Attached USGS Map of Location** ( )**Site I.D. #:** N/A

Referral

(X)**Citizen** ( )**City/Town** ( )**State** ( )**Preremedial**
( )**RCRA** ( )**Other:**
Name of referring party: Anonymous **Phone:**( )
Address:

Contacts Identified

1) Thomas Whitcomb, Enviro-Plastics Corp. **Phone:**(508)832-5095
2) Lt. William Whynot, Auburn Fire Dept. **Phone:**(508)832-7800
3) Mike O'Hara, Auburn Board of Health **Phone:**(508)832-7703

Source of Information

( ) **Verbal:**
(X) **Report:** Anonymous party referred to the U.S. EPA
( ) **Other:**

Potential Responsible Parties

Owner: Thomas Whitcomb, Enviro-Plastics **Phone:**(508)832-5095
Address: 15 Saint Mark Street, Auburn, MA

Operator: **Phone:**( )
Address:

Site Access

Authorizing Person: Thomas Whitcomb, Enviro-Plastics Corp.
Date: February 13, 1995 (X)**Obtained** (X)**Verbal**
Phone: ( )**Not Obtained** ( )**Written**

REMOVAL PRELIMINARY ASSESSMENT

Physical Site Characterization

Background Information: The Enviro-Plastics Corporation Site (the Site) is an active plastic bottle recycling facility located in Auburn, MA. EPA received an anonymous report stating that the facility may have disposed/dumped acid wastes associated with its process water treatment system into dumpsters located behind the facility.

Description of Substances Possibly Present, Known or Alleged: Acid wastes (sulfuric and hydrochloric) associated with the process water treatment operations.

Existing Analytical Data

No sampling data exists for this site

( ) **Real-Time Monitoring Data:**

( ) **Sampling Data:**

Potential Threat

Description of potential hazards to environment and/or population -identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

ii. Actual or potential contamination of drinking water supplies or sensitive ecosystems.

iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

iv. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

v. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

vi. Threat of fire or explosion.

vii. The availability of other appropriate federal or state response mechanisms to respond to the release.

viii. Other situations or factors that may pose threats to public health or welfare or the environment.

Prior Response Activities

( ) **PRP** ( ) **STATE** ( ) **FEDERAL** ( ) **OTHER**
Brief Description: There is no indication and/or record that any prior activities have been conducted at this site.

Priority for Site Investigation

(X) **High** ( ) **Medium** ( ) **Low** ( ) **None**
Comments:

Report Generation

Originator: Stephen Amirault **Date:** February 10, 1995
Affiliation: Roy F. Weston, Inc., (TAT) **Phone:** (617) 229-6430
TDD#: 01-9502-09 **PCS#:** 1192

EPA REGION I
REMOVAL SITE INVESTIGATION

Inspection Information

Site Name: Enviro-Plastics Corp. **Address:** 15 Saint Mark Street
Town: Auburn **County:** Worcester **State:** Massachusetts
Date of Inspection: 02/13/95 **Time of Inspection:** 1000 - 1145 hrs
Weather Conditions: Sunny 20° F
Site Status at Time of Inspection: (X) **ACTIVE** ( ) **INACTIVE**
Comments: The Site is an active plastic bottle recycling plant. The investigation was conducted in response to an anonymous referral to EPA. The referral stated that the facility may have disposed of acid waste associated with an on-site process water treatment system into a dumpster in the rear of the property, and that the acid waste may have leaked into a pond located behind the property.

Agencies/Personnel Performing Inspection

	Names	Program
(X) **EPA:**	Ted Bazenas (OSC)	ESD, EPRB
(X) **EPA Contractor:**	Stephen Amirault	Roy F. Weston, Inc. Technical Assistance Team
( ) **State :**		
( ) **Other :**		

Current Owner Based on Field Interview: Thomas Whitcomb

Physical Site Characteristics

Parameter	Quantities/Extent
( ) **Cylinders:**	
(X) **Drums:**	The facility uses sulfuric acid and sodium hydroxide in its process water treatment system. Both are stored in drums inside of the building.
( ) **Lagoons:**	
( ) **Tanks:** ( ) **Above:** ( ) **Below:**	
( ) **Asbestos:**	
( ) **Piles:**	
( ) **Stained Soil:**	
( ) **Sheens:**	
( ) **Stressed Vegetation:**	
( ) **Landfill:**	

REMOVAL SITE INVESTIGATION

( ) **Population in Vicinity:**

( ) **Wells:** ( ) **Drinking:**
( ) **Monitoring:**

( ) **Other:**

Physical Site Observations

The Site is generally level and consists of one building which contains the bottle recycling facility. There is one dumpster located in the rear of the property used for general plant waste. Snow cover on the ground did not allow for an inspection of the area around the dumpster. There was no pond and/or wetland observed in the rear of the property, however, this area was also covered with snow. The site is located in an industrial area with no residential properties located in the immediate area.

Field Sampling and Analysis

Matrix	Analytical Parameter	Field Instrumentation CGI/O_2	RAD	PID	FID	Other

Background Readings: Air monitoring was not conducted since the inspection activities consisted of a tour of the operating facility area, as well as the surrounding property.

Field Quality Control Procedures

(X) **SOP Followed** ( ) **Deviation From SOP**

Comments:

Description of Sampling Conducted

Sampling was not conducted during the site investigation.

Analyses

Analytical Parameter	Media	Laboratory
( ) VOA	( ) AIR	( ) NERL
( ) PCB	( ) WATER	( ) CLP
( ) PESTICIDE	( ) SOIL	( ) PRIVATE
( ) METALS	( ) SOURCE	( ) SAS
( ) CYANIDE	( ) SEDIMENT	( ) SOW
( ) SEMI VOA (BNA)		
( ) TOXICITY		
( ) DIOXIN		
( ) ASBESTOS		
( ) OTHER		

Receptors

	Comments
( ) **Drinking Water** ( ) **Private:** ( ) **Municipal:**	
( ) **Ground Water:**	
(X) **Unrestricted Access:**	Access to the rear of the property and the wooded area adjacent to the the property is unrestricted.
( ) **Population in Proximity:**	
( ) **Sensitive Ecosystem:**	
( ) **Other:**	

Additional Procedures for Site Determination

( ) **Biological Evaluation** ( ) **ATSDR**

NA

Site Determination

Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

iii. Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

Report Generation

Originator: Stephen Amirault **Date:** February 15, 1995
Affiliation: Roy F. Weston, Inc., (TAT) **Phone:** (617) 229-6430
TDD#: 01-9502-09 **PCS#:** 1192

II. Narrative Chronology

On Monday, February 13, 1995, U.S. Environmental Protection Agency (EPA) On-Scene Coordinator (OSC) Ted Bazenas, along with Roy F. Weston, Inc., Technical Assistance Team (TAT) member Stephen Amirault traveled to the Enviro-Plastics Corporation Site (the Site) located at 15 Saint Mark Street in Auburn, Worcester County, Massachusetts (See Appendix A, Figure 1-Site Location Map) to conduct a Removal Program preliminary assessment/site investigation (PA/SI).

The Enviro-Plastics Corporation is an active facility which recycles polyethylene (PET) and high density polyethylene (HDPE) bottles. The facility recycles used bottles collected from area landfills through a process in which the bottles are sorted into like groups, ground into flakes, rinsed of dirt and residue, and finally remelted and formed into pellets. The process also includes a process water treatment system used to treat the water used during the rinsing operation.

The PA/SI was conducted in response to an anonymous referral received by EPA stating that the facility may have disposed of acid wastes associated with the process water treatment system into a dumpster located in the rear of the facility building. The acid wastes may have subsequently leaked from the dumpster onto the surrounding ground or into a nearby pond.

Upon arriving at the facility, OSC Bazenas and TAT member Amirault met with Thomas Whitcomb, Vice President of Manufacturing for the facility, who explained the recycling operations conducted at the facility. The following items were noted at the meeting:

- The facility currently uses sulfuric acid for neutralization of the process water generated from the rinsing operation. One 55-gallon drum of acid is used in the operation and a second one is stored as a backup.

- Sodium hydroxide is also used during the water neutralization process. One 55-gallon drum of sodium hydroxide is used in the operation and a second 55-gallon drum of this material is also stored within the facility.

- The facility's wastewater discharge permits are renewed annually and are current. The pH of the discharged water is monitored on an hourly basis.

- Sludge generated from the process water treatment system is removed through a press and is sent to a local landfill.

Following the meeting, Mr. Whitcomb, OSC Bazenas and TAT member Amirault conducted a tour of the facility (See Appendix B, Figure 2 - Site Diagram). The parties walked through the complete recycling process area, including the water treatment area. In the water treatment area, one open 55-gallon drum of sulfuric acid, which is pumped into the treatment tank, was staged adjacent to one open 55-gallon drum of sodium hydroxide. The backup drums of the sulfuric acid and sodium hydroxide were also stored in the same area near the plant compressor. OSC Bazenas informed Mr. Whitcomb that open containers of incompatible materials such as

acids and bases should be spatially segregated. There was also a bank of four cartridge-type filters located adjacent to one of the water storage tanks. Mr. Whitcomb stated that these filters were not part of the current process water treatment system, but had been used experimentally in the past in an attempt to filter out more residue from the system. TAT member Amirault photodocumented the sulfuric acid and sodium hydroxide drums in both the process water treatment and the storage areas with a still camera (See Appendix C - Photodocumentation Log).

Following the tour of the indoor facility, the parties toured the exterior of the building. In the rear of the building, there was one dumpster used for general plant waste. There was no sign of leakage or staining observed under or around the dumpster, although a complete inspection could not be completed due to the snow cover on the ground around the dumpster. There were also three pellet storage silos in the rear of the facility. No pond or wetlands were observed in the wooded area behind the rear of the facility, however, the grounds were also under a snow cover. In addition, there were several trailers in the rear of the facility which were used for storage by the facility. TAT member Amirault also photodocumented the rear of the facility with a still camera.

Following the tour of the facility exterior, the parties returned inside the building and discussed the process water treatment operations with Mr. Whitcomb and plant engineer Franco Previd.

Following the meeting, OSC Bazenas and TAT member Amirault departed the facility and traveled to the Auburn Fire Department to review information about the site with Lieutenant William Whynot of the Auburn Fire Department. Lieutenant Whynot had requested that he be advised of any findings during pre-site investigation notification.

Upon the completion of the meeting, OSC Bazenas and TAT member Amirault departed the fire station and returned to the EPA New England Regional Laboratory.

APPENDIX A

Site Location Map (Figure 1)

III. Appendices

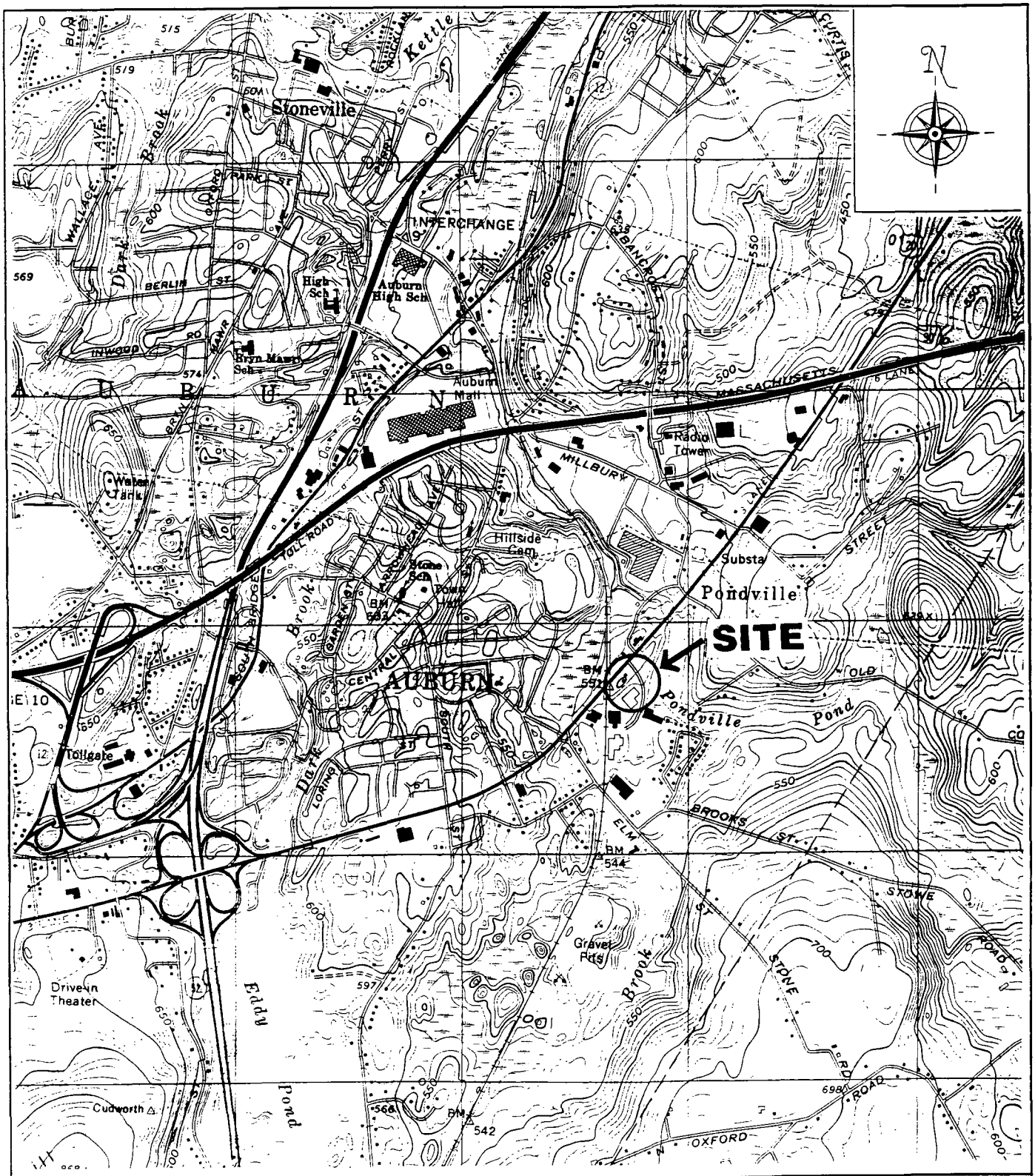

FIGURE 1

SCALE 1:24,000

SITE LOCATION MAP
ENVIRO-PLASTIC SITE
AUBURN, MASSACHUSETTS

SOURCE: USGS TOPOGRAPHIC MAP, WORCESTER SOUTH, MASSACHUSETTS QUADRANGLE. 7.5 MINUTE SERIES, 1973.

WESTON®
MANAGERS DESIGNERS/CONSULTANTS
REGION I TECHNICAL ASSISTANCE TEAM

DRAWN BY	DATE	PCS #
S. AMIRAULT	2/95	1192
APPROVED BY	DATE	TDD #
TCS	2/95	01-9502-09

APPENDIX B

Site Diagram (Figure 2)

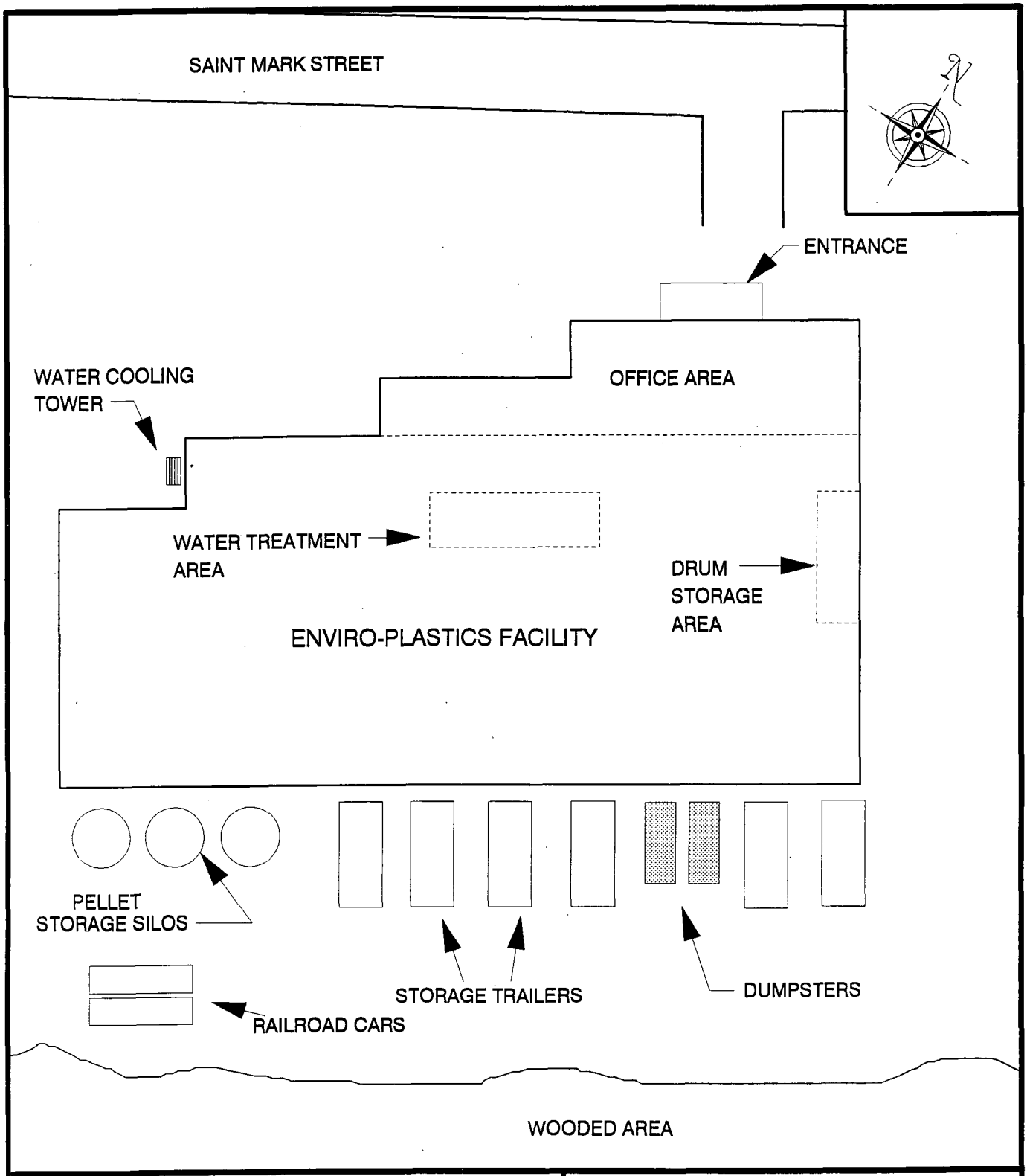

FIGURE 2

SITE DIAGRAM
ENVIRO-PLASTIC SITE
AUBURN, MASSACHUSETTS

NOT TO SCALE

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REGION I TECHNICAL ASSISTANCE TEAM

DRAWN BY S. AMIRAULT	DATE 2/95	PCS # 1192
APPROVED BY [signature]	DATE 3/15	TDD # 01-9502-09

APPENDIX C

Photodocumentation Log

PHOTOGRAPHY LOG SHEET

Enviro-Plastics Corp. • Auburn, Massachusetts

SCENE: Sulfuric acid and sodium hydroxide drums located in the water treatment area.
FRAME NUMBER: 1 **DATE:** 02/13/95 **TIME:** 1115 **SKY CONDITION:** Indoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

SCENE: Sulfuric acid and sodium hydroxide drums located in the water treatment area.
FRAME NUMBER: 2 **DATE:** 02/13/95 **TIME:** 1117 **SKY CONDITION:** Indoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

PHOTOGRAPHY LOG SHEET

Enviro-Plastics Corp. • Auburn, Massachusetts

SCENE: Drum storage area.
FRAME NUMBER: 3 **DATE:** 02/13/95 **TIME:** 1119 **SKY CONDITION:** Indoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

SCENE: Municipal waste dumpsters located in the rear of the building.
FRAME NUMBER: 4 **DATE:** 02/13/95 **TIME:** 1131 **SKY CONDITION:** Outdoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

PHOTOGRAPHY LOG SHEET

Enviro-Plastics Corp. • Auburn, Massachusetts

SCENE: Storage trailers located in the rear of the building.
FRAME NUMBER: 5 **DATE:** 02/13/95 **TIME:** 1131 **SKY CONDITION:** Outdoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

SCENE: Storage silos, trailer and railcar located in the rear of the building.
FRAME NUMBER: 6 **DATE:** 02/13/95 **TIME:** 1134 **SKY CONDITION:** Outdoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

PHOTOGRAPHY LOG SHEET

Enviro-Plastics Corp. • Auburn, Massachusetts

SCENE: Water cooling tower located along the side of the building.
FRAME NUMBER: 7 **DATE:** 02/13/95 **TIME:** 1136 **SKY CONDITION:** Outdoors
PHOTO BY: S. Amirault **WITNESS(ES):** T. Bazenas
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35mm **FILM ROLL:** 01083

WESTON
MANAGERS DESIGNERS/CONSULTANTS

99 South Bedford St
Suite 5
Burlington, MA 01803
Phone: 617-229-6430
Fax: 617-272-3619

NEGATIVES

ROLL 01083

APPENDIX D

Health and Safety Plan

COPY

ROY F. WESTON, INC.
TECHNICAL ASSISTANCE TEAM
REGION I
HEALTH AND SAFETY PLAN
EMERGENCY RESPONSE/SITE INVESTIGATION

TDD No. 01-9402-09 **PCS No.** 1192 **Site Name:** Enviro-Plastic
Site Address: Street No. 15 Saint Mark Street
City Auburn
County/State Worchester / Massachusetts
Site Contact/Phone No.: NA

Directions to Site: (Att. Map) Take Route 95 south to Route 90 West (Mass. Turnpike). At exit 10, take Route 290 south. Follow for approx. 0.5 miles, then take Route 20 east. Follow for approx. 1.5 miles, then take right onto Saint Mark Street. Site is at 15 Saint Mark Street.

Historical/Current Site Information: Site is a plastic recycling facility. EPA has received an anonymous report that the facility may be dumping some waste acids (hydrochloric and sulfuric) into an area behind facility, as well as into local sewage system.

Incident Type:
( ) Air Release - _____
(X) Spill - Alleged dumping of waste acids on site
( ) Fire - _____
( ) HW Site - _____

Location Class: (X) Industrial ( ) Commercial ( ) Urban/Residential ( ) Rural

USEPA Contact: Ted Bazenas **Date of Initial Site Activities:** 2 / 13 / 95
Original HASP: YES X **Modification Number:** _____
Lead TAT: S. Amirault **Site Health & Safety Coordinator:** S. Amirault
Response Activities/Duration (fill in as applicable)

		Duration
Emergency Response:	( ) Perimeter Recon.	NA
	( ) Site Entry	NA
	( ) Visual Documentation:	NA
	( ) Multi-media Sampling:	NA
	( ) Decontamination:	NA
Assessment:	(X) Perimeter Recon.	2 hrs
	( ) Site Entry	NA
	(X) Visual Documentation:	0.5 hrs
	( ) Multi-media Sampling:	NA
	( ) Decontamination:	NA

Physical Safety Hazards to Personnel

( ) Heat (X) Cold ( ) Precipitation ( ) Confined Space ( ) Terrain
(X) Walking/Working Surfaces ( ) Fire & Explosion ( ) Oxygen Deficiency
( ) Underground Utilities ( ) Overhead Utilities ( ) Heavy Equipment
( ) Unknowns in Drums, Tanks, Containers ( ) Ponds, Lagoons, Impoundments
( ) Rivers, Streams (X) Pressurized Containers, Systems ( ) Noise
( ) Illumination ( ) Nonionizing ( ) Ionizing Radiation

Biological Hazards to Personnel

( ) Infectious/Medical/Hospital Waste ( ) Non-domesticated Animals
( ) Insects ( ) Poisonous Plants/Vegetation ( ) Raw Sewage

Training Requirements

(X) 40 Hour General Site Worker Course with three days supervised experience.
( ) 24 Hour Course for limited, specific tasks with one day supervised experience.
( ) 24 Hour Course for Level D Site with one day supervised experience.
(X) 8 Hour Annual Refresher Health and Safety Training.
(X) 8 Hour Management/Supervisor Training in addition to basic training course.
( ) Site Specific Health and Safety Training.
( ) Pre-entry training for emergency response skilled support personnel.

Medical Surveillance Requirements

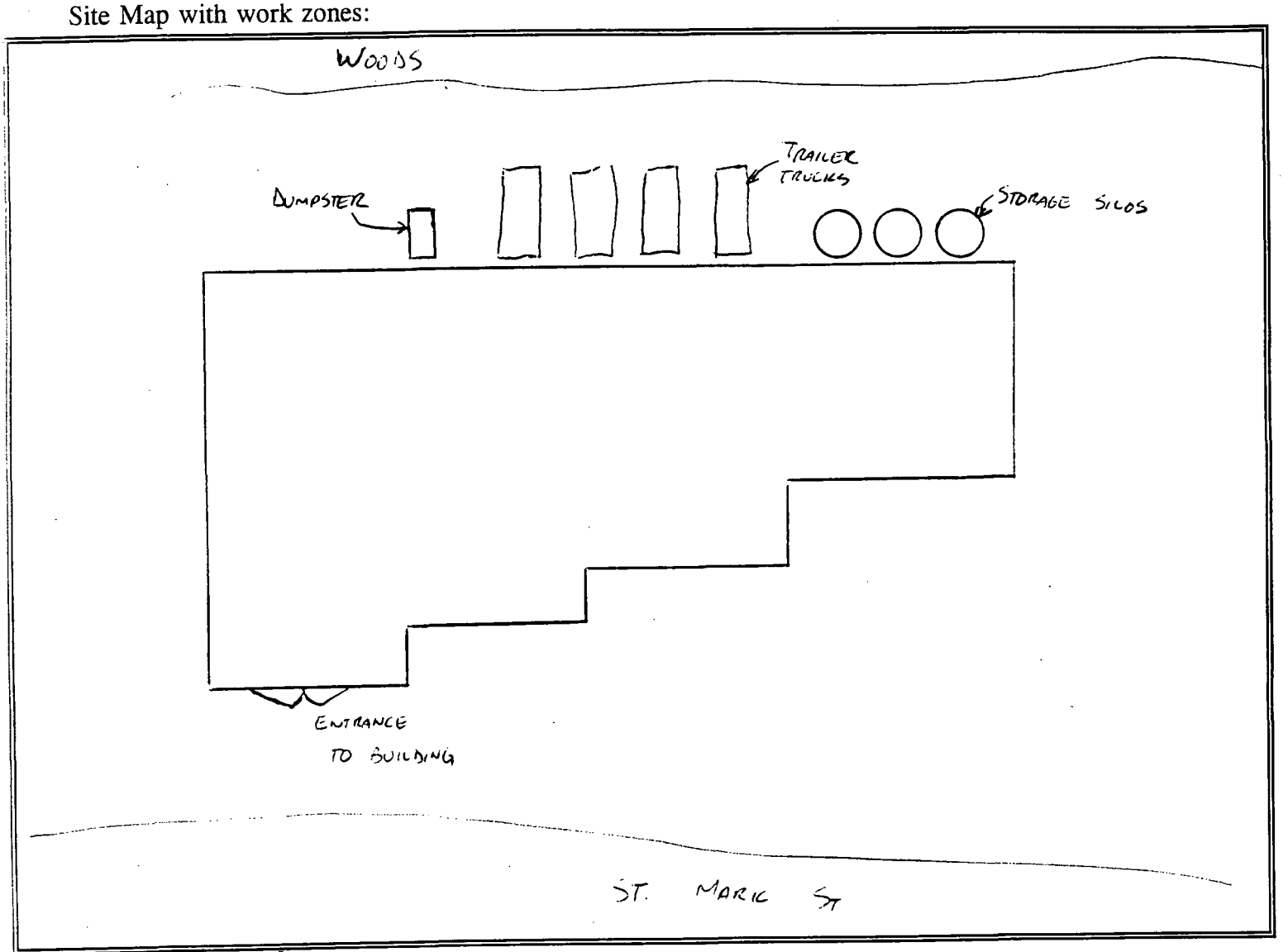
(X) Baseline initial physical examination with physician certification.
(X) Annual medical examination with physician certification.
( ) Site Specific medical monitoring protocol (Radiation, Pesticide, PCB, Metals).
( ) Asbestos Worker medical protocol.
( ) Exempt from medical surveillance: _____.
(X) Examination required in event of chemical exposure or trauma.

Physical Parameters	Chemical Contaminant	Chemical Contaminant	Chemical Contaminant	Chemical Contaminant
	Hydrogen Chloride	Sulfuric Acid	Hydrochloric Acid	
Exposure Limits IDLH Level	5 ppm 7 mg/m³ PEL ___ ppm ___ mg/m³ TLV 100 ppm ___ mg/m³ IDLH	___ ppm 1 mg/m³ PEL ___ ppm ___ mg/m³ TLV ___ ppm 80 mg/m³ IDLH	5 ppm 7 mg/m³ PEL ___ ppm ___ mg/m³ TLV ___ ppm ___ mg/m³ IDLH	___ ppm ___ mg/m³ PEL ___ ppm ___ mg/m³ TLV ___ ppm ___ mg/m³ IDLH
Physical Form Solid Liquid Gas Color	___ Solid ___ Liquid X Gas ____ Color	___ Solid X Liquid ___ Gas ____ Color	___ Solid X Liquid ___ Gas ____ Color	___ Solid ___ Liquid ___ Gas ____ Color
Odor	Pungent, irritating	Odorless	Pungent, irritating	
Flash Point Flammable Limits	NA Degrees F or C ___% UEL ___% LEL	NA Degrees F or C NA % UEL NA % LEL	NA Degrees F or C ___% UEL ___ LEL	____ Degrees F or C ___% UEL ___ LEL
Vapor Pressure Vapor Density	>1 atm. mm/Hg _____ Air = 1	1 mm/Hg _____ Air = 1	_____ mm/Hg 1.268 Air = 1	_____ mm/Hg _____ Air = 1
Specific Gravity	NA Water = 1	1.84 Water = 1	>1 Water = 1	_____ Water = 1
Solubility	67%	Miscible in water	Miscible in water	
Incompatible Materials	Metals, hydroxides	Organic materials, water	Metals, hydroxides	
Route of Exposure	X Inh ____ Abs X Con X Ing	X Inh ____ Abs X Con X Ing	X Inh X Abs X Con ____ Ing	____ Inh ____ Abs ____ Con ____ Ing
Symptoms of Acute Exposure	Irritated nose, throat, burns on skin.	Irritated eyes, skin	Irritated nose, throat and skin.	
First Aid Treatment	Irrigate immediately water flush, respiratory support.	Irrigate immediately Respiratory support	Irrigate immediately water wash, resiratory support.	
Ion Potential	12.74 eV	NA eV	NA eV	_____ eV
Instruments for Detection	___ PID w/___ Probe ___ FID ___ CGI ___ RAD X Det Tube ___ pH Other _____	___ PID w/___ Probe ___ FID ___ CGI ___ RAD X Det Tube ___ pH Other pH paper	___ PID w/ ___ Probe ___ FID ___ CGI ___ RAD ___ Det Tube ___ pH Other pH paper	___ PID w/ ___ Probe ___ FID ___ CGI ___ RAD ___ Det Tube ___ pH Other _____

* *Refer to Appendix A of this Health and Safety Plan for definitions of abbreviations and codes used in this table.*

ite Control Measures

Site Map with work zones:



Decontamination Procedures

( ) Wet Decontamination - using: _____

(X) Dry Decontamination

Description of Site Specific Decontamination Plan:

Site activities will consist of a site walk through and photo documentation. No decontamination will be required.

Adequacy of decontamination determined by: NA

rsonal Protective Equipment

TASKS TO BE PERFORMED/AIR MONITORING REQUIRED	ANTICIPATED LEVEL OF PROTECTION	TYPE OF CHEMICAL PROTECTIVE COVERALL	INNER GLOVE OUTER GLOVE BOOT COVER	TYPE OF APR CARTRIDGE OR CANISTER
Perimeter recon. Photodocumentation 1,2,3	D	Cotton coveralls Steel toe boots	NA	NA

requency and Types of Air Monitoring: (X) Continuous ( ) Routine - _____ ( ) Periodic - _____

DIRECT READING INSTRUMENTS	COMBUSTIBLE GAS/OXYGEN METER (1)	RADIATION SURVEY METER/PROBE (2)	PHOTOIONIZATION DETECTOR/PROBE (3) Probe: 10.2	FLAME IONIZATION DETECTOR (4)	CHEMICAL DETECTOR TUBE (5)
ID NUMBER	TAT #1	TAT #1	TAT #3		
CAL. DATE	2/13/95	2/13/95	2/13/95		
TAT MEMBER	S. Amirault	S. Amirault	S. Amirault		
ACTION LEVEL	≥ 20% LEL ≤ 19.5%, ≥23% O_2 - LEAVE	3X BACKGRND-CAUTION; 1 MR/HR-LEAVE	UNKNOWNS 0-5 UNITS: "C" 5-500: "B"	UNKNOWNS 0-5 UNITS: "C" 5-500: "B"	PEL/TLV COMPARE W/PF

mergency Phone Numbers (all contacts must be notified)

Emergency Contact	Location	Phone Number	Notified
Hospital	Worcester Memorial Hospital 119 Belmont Street Worchester, MA	(508) 856-0011	Yes
Ambulance	Town	(508) 832-2777	Yes
Police	434 Southbridge St. Auburn, MA	(508) 832-7777	Yes
Fire Dept.	5 West Street Auburn, MA	(508) 832-7800	Yes

hemical Trauma Capability? (X) Yes ( ) No If no, closest backup:_____ Phone: _____

)irections to hospital (attach map) - Route verified by: _____ Date: ___/___/_____
Exit site, north on St. Mark Street to Route 20 west (left). Follow to Route 290 North. Follow for approx. 5 miles
) exit 17, Belmont Street (Route 9 east). Hospital is on left.

\dditional Emergency Phone Contacts

Contact	Phone Number
WESTON 24 hr. Hotline	215-524-1925, 215-524-1926
WESTON Medical Emergency Service	800-229-3674 (EMR)
Chemtrec	800-424-9300
ATSDR	404-639-0615
ATF (explosives information)	800-424-9555
National Response Center	800-424-8802
National Poison Control Center	800-942-5969
Region I TAT Office	617-229-6430

HASP Prepared by: Stephen Amigone Date: 2/10/95
Pre-Response/Entry Approval by: [signature] Date: 10/Feb/95
Verbal Approval/ Modification to Original HASP by: _____ Date: ___/___/___

Final HASP to be submitted to RSO on the day following completion of activities.

Physical Description of Site and Response Activities

Size of Site: ~ 1 ACRE Terrain LEVEL Weather SUNNY 20°F
Distance to Nearest: Residence NA School NA Hospital ~ 6 MILES
Public Building NA Other NA
Evacuation: ( ) Yes (X) No By Whom: _____
Nearest Waterway: NA Distance from Site: NA

Condition	Observed	Potential	None	Comments/Observations*
Surface Water Contamination			X	
Ground Water Contamination			X	
Drinking Water Contamination			X	
Air Release			X	
Soil Contamination			X	
Stressed Vegetation			X	
Dead Animal Species			X	

* Comment required for observed or potential.

Actions Taken On-Site:

Perimeter Monitoring: (X) Yes (~~X~~) No
Site Entry by TAT: (X) Yes ( ) No

Tasks Conducted	Level of Protection/Specific PPE Used
SITE WALK THROUGH	LEVEL D - STEEL TOED BOOTS, COTTON COVER ALLS

ir Monitoring Summary Log

Date: 2/13/95

Data Collected by: NA

)ata to be summarized by a "Range of readings, i.e., - Low to High" and/or "Average" by location.

Station/Location	CGI/O_2 Meter	Radiation Meter	PID/Probe Probe:	FID/OVA	Detector Tube

Summary/Comments: NO AIR MONITORING WAS PERFORMED DURING SITE ACTIVITIES. ACTIVITIES CONSISTED OF A MEETING WITH FACILITY MANAGER, AND GUIDED WALK THROUGH OF INTERIOR OPERATIONS OF OPERATING FACILITY, AS WELL AS GUIDED TOUR OF EXTERIOR OF BUILDING, BOTH CONDUCTED WITH FACILITY MANAGER

Hazardous Waste Site and Environmental Sampling Activities

Off Site: ( ) Yes (X) No
On Site: ( ) Yes (X) No

Description of types of samples and methods used to obtain samples: NA

Was laboratory notified of potential hazard level of samples? ( ) Yes ( ) No (X) N/A

Note: The nature of the work assignment may require the use of the following procedures/programs which will be included as Attachments to this HASP as applicable: Emergency Response Plan, Confined Space Entry Procedures, Spill Containment Program.

Disclaimer: This Health and Safety Plan (HASP) was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 68-WO-0036 for Zone I. Use of this HASP by WESTON and its subcontractors is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this HASP are included by reference to 29 CFR 1910 and 1926.

The signatures below indicate that the individuals have read and understand the Health and Safety Plan.

PRINTED NAME	SIGNATURE	AFFILIATION	DATE
STEPHEN AMIRAULT	Stephen Amirault	R.F. WESTON	2/13/95

	Date
Final Submission of HASP by: Stephen Amirault	2/13/95
Post Response Review by:	
Post Response Approval by:	14 FEB 95
TAT HSO Review by:	

COMMENTS/FOLLOWUP

APPENDIX A

ABBREVIATIONS AND CODES FOR CHEMICAL HAZARDS TABLE

ABBREVIATIONS FOR SYMPTOMS OF ACUTE EXPOSURE

abdom - abdominal
album - albuminuria
anem - anemia
anes - anesthesia
anor - anorexia
anos - anosmia
ANS - automatic nervous system
apat - apathy
appre - apprehension
arrhy - arrhythmias
asphy - asphyxia
asth - asthma
biliru - bilirubinuria
blur - blurred
breath - breathing
bron - bronchitis
bronspas - bronchospasm
BUN - blood urea nitrogen
ca - cancer
cachexia - severe generalized weakness, emaciation
[CARC] - carcinogenic/carcinogen
card - cardiac
cere - cerebral
chol - cholinesterase
chor - chorea
cirr - cirrhosis
CNS - central nervous system
coll - collapse
conf - confusion
conj - conjunctivitis
constip - constipation
constric - constriction
convuls - convulsions
cor pulmonale - acute right heart strain or chronic right ventricular hypertrophy
corn - cornea
CVS - cardiovascular system
cyan - cyanosis
defat - defatting
deg - degeneration
dent - dental
depres - depressant/depression
derm - dermatitis
diarr - diarrhea
dil - dilated
dist - disturbance
dizz - dizziness
drow - drowsiness
dys - dysuria
dysp - dyspnea
dysart - dysarthria
ecz - eczema
emphy - emphysema
enl - enlargement
eosin - eosinophilia
epis - epistaxis
epit - epistaxis
equi - equilibrium
ery chol - erthrocyte cholinesterase
eryt - erythema
euph - euphoria
extrex - extremities
fasc - fasciculation
fib - fibrosis
fibrl - fibrillation
frost - frostbite
ftg - fatigue
fvr - fever
gasp - gasping
GI - gastrointestinal
gidd - giddiness
glau - glaucoma
glu - glucose
halu - hallucinations
head - headache
hemat - hematoma
hemato - hematoglobinuria
hemorr - hemorrhage
hep - hepatic
hyper - hyperemia
hypox - hypoxemia
ict - icterus
inco - incoordination
inflamm - inflammation
inj - injury
insom - insomnia
intox - intoxication
irrit - irritation
irrity - irritability
jaun - jaundice
kera - keratitis
kid - kidney
lab - labored
lac - lacrimation
lar - laryngeal
lass - lassitude
leucyt - leakocytosis
leuk - leukemia
leupen - leukopenia
li-head - lightheadedness
liv - liver
lo-ap - appetite
low-wgt - weight loss
lymp - lymphocytosis
mal - malaise
malnut - malnutrition
monocy - monocytosis
muc memb - mucous membrane
musc - muscle
myo - myotonia
narc - narcosis
nas - nose/nasal
nau - nausea
nec - necrosis
neph - nephritis
ner - nervousness
neur - neurologic
numb - numbness
opac - opacity
pal - pallor
palp - palpitations
para - paralysis
pares - paresthesia
paresis - incomplete loss of muscular power; weakness of a limb
parox - paroxysm
perf - perforation
peri neur - peripheral neuritis
periorb - periorbital
phar - pharyngeal
photo - photophobia
pig - pigmentation
plas - plasma
pleur - pleurisy
pneu - pneumonia
pneuitis - pneuitis
PNS - peripheral nervous system
polyneur - polyneuropathy
pros - prostration
prot - proteinuria
pyspec - psychialopecia
pulm - pulmonary
pulsus altenans - a pulse pattern in which beats occur at regular intervals, but with alternating weak and strong beats
pup - pupil
RBC - red blood cell
resp - respiratory
resp ar - respiratory arrest
rester - restrostrenal
rhin - rhinorrhea
salv - salivation
scotoma - an area of absent or depressed vision in the visual field
sens - sensitization
sez - seizure
sleep - sleepiness
sneez - sneezing
som - somnolence
spas - spasm
strabismus - abnormality of the eyes visual axes do not meet at the desired point
subs - substernal
sweat - sweating
swell - swelling
tacar - tachycardia
temp - temperature
tend - tenderness
trachbronc - tracheobronchitis
vasconst - vasoconstriction
venfib - ventricular fibrillation
verti - vertigo
vesic - vesiculation
vis dist - visual disturbance
vomit - vomiting
weak - weakness
wheez - wheezing

CODES FOR FIRST AID TREATMENT

(E

r immed — If chemical comes in contact with the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. get medical attention immediately. Contact lenses should not be worn when working with this chemical.

r immed (15 min) — If this chemical comes in contact with the eyes, immediately wash the eyes with large amounts of water and continue flushing for 15 minutes, occasionally lifting the lower and upper lids. get medical attention immediately. Contact lenses should not be worn when working with this chemical.

r promptly — If this chemical comes in contact with the eyes, promptly wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention if any discomfort continues. Contact lenses should not be worn when working with this chemical.

Medical attention — Self-explanatory

SKIN

ust off solid; ater flush — If this solid chemical comes in contact with the skin, dust it off immediately and then flush the contaminated skin with water. If this chemical, or liquids containing this chemical, penetrate through the clothing, promptly remove the clothing and flush the skin with water. Get medical attention immediately.

Medical attention or frostbite — If this chemical comes in contact with the skin or mouth, stop the exposure immediately. If frostbite has occurred, get medical attention.

Molten: flush immed: sol/ liq wash — If this molten chemical comes in contact with the skin, immediately flush the skin with large amounts of water. Get medical attention immediately. If this chemical, or liquids containing this chemical, contacts the skin, promptly wash the contaminated skin with soap and water. If this chemical, or liquids containing this chemical, penetrates through the clothing, immediately remove the clothing and wash the skin with soap and water. If irritation persists after washing, get medical attention.

Petro product rinse — If this chemical or strong concentrations of this chemical's vapors comes in contact with the skin, immediately rinse the contaminated skin with kerosene or similar petroleum products, if readily available, then wash the skin with soap and water. If this liquid chemical or strong concentrations of this chemical's vapors penetrate through the clothing, immediately remove the clothing and rinse the skin with kerosene or similar petroleum products, if readily available, then wash the skin with soap and water. Get medical attention immediately.

Soap flush immed — If this chemical comes in contact with the skin, immediately flush the contaminated skin with soap and water. If this chemical penetrates through the clothing, and flush skin with water. If irritation persists after washing, get medical attention.

Soap flush promptly — If this chemical comes in contact with the skin, promptly flush the contaminated skin with soap and water. If this chemical penetrates through clothing, promptly remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention.

Soap promptly/ flush immed — If this solid chemical or liquids containing this chemical, comes in contact with the skin, promptly wash the contaminated skin with soap and water. If irritation persists after washing, get medical attention. If this chemical contacts the skin or non-impervious clothing, immediately flush the affected area with large amounts of water to remove heat. Get medical attention immediately.

Soap wash — If this chemical comes in contact with the skin, wash the contaminated skin with soap and water.

Soap wash immed — If this chemical comes in contact with the skin, immediately wash the contaminated skin with soap and water. If this chemical penetrates through the clothing, immediately remove the clothing, wash the skin with soap and water, get medical attention promptly.

Soap wash promptly — If this chemical comes in contact with the skin, promptly wash the contaminated skin with soap and water. If this chemical penetrates through the clothing, promptly remove the clothing and flush skin with water promptly. If irritation persists after wash-ing, get medical attention.

Water wash immed — If this chemical comes in contact with the skin, promptly wash the contaminated skin with water. If this chemical penetrates the clothing, promptly remove the clothing and wash the skin with water. If irritation persists after washing, get medical attention.

BREATH

Art resp — If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Fresh air — If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary.

Fresh air; 100% O_2 — If a person breathes in large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. When breathing is difficult, properly trained personnel may assist the affected person by administering 1005 oxygen. Keep the affected person warm and at rest. Get medical attention as soon as possible.

SWALLOW

Medical immed — If this chemical has been swallowed get medical attention immediately.

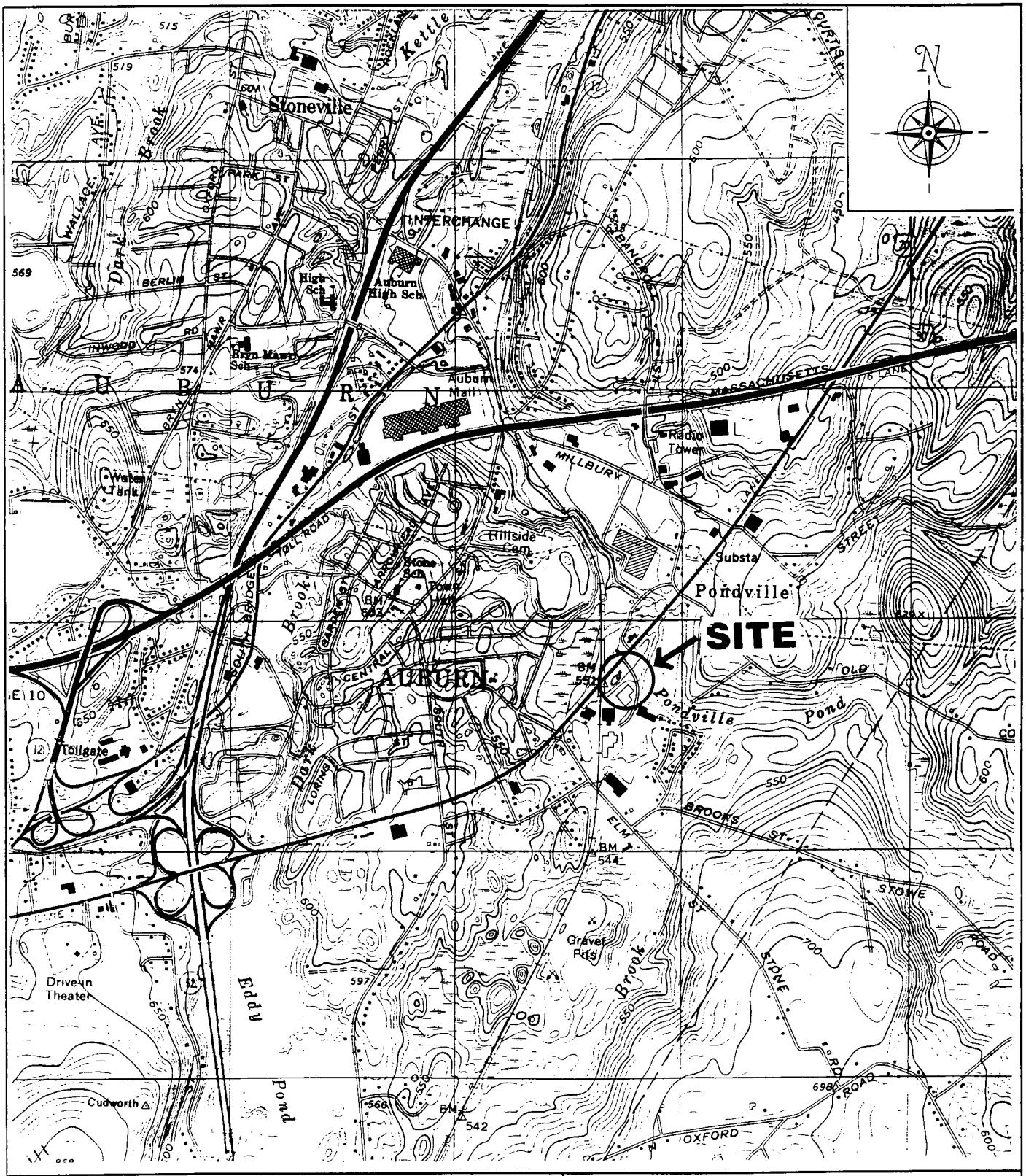


FIGURE 1

SCALE 1:24,000

SITE LOCATION MAP
ENVIRO-PLASTIC SITE
AUBURN, MASSACHUSETTS

SOURCE: USGS TOPOGRAPHIC MAP, WORCESTER SOUTH, MASSACHUSETTS QUADRANGLE. 7.5 MINUTE SERIES, 1973.

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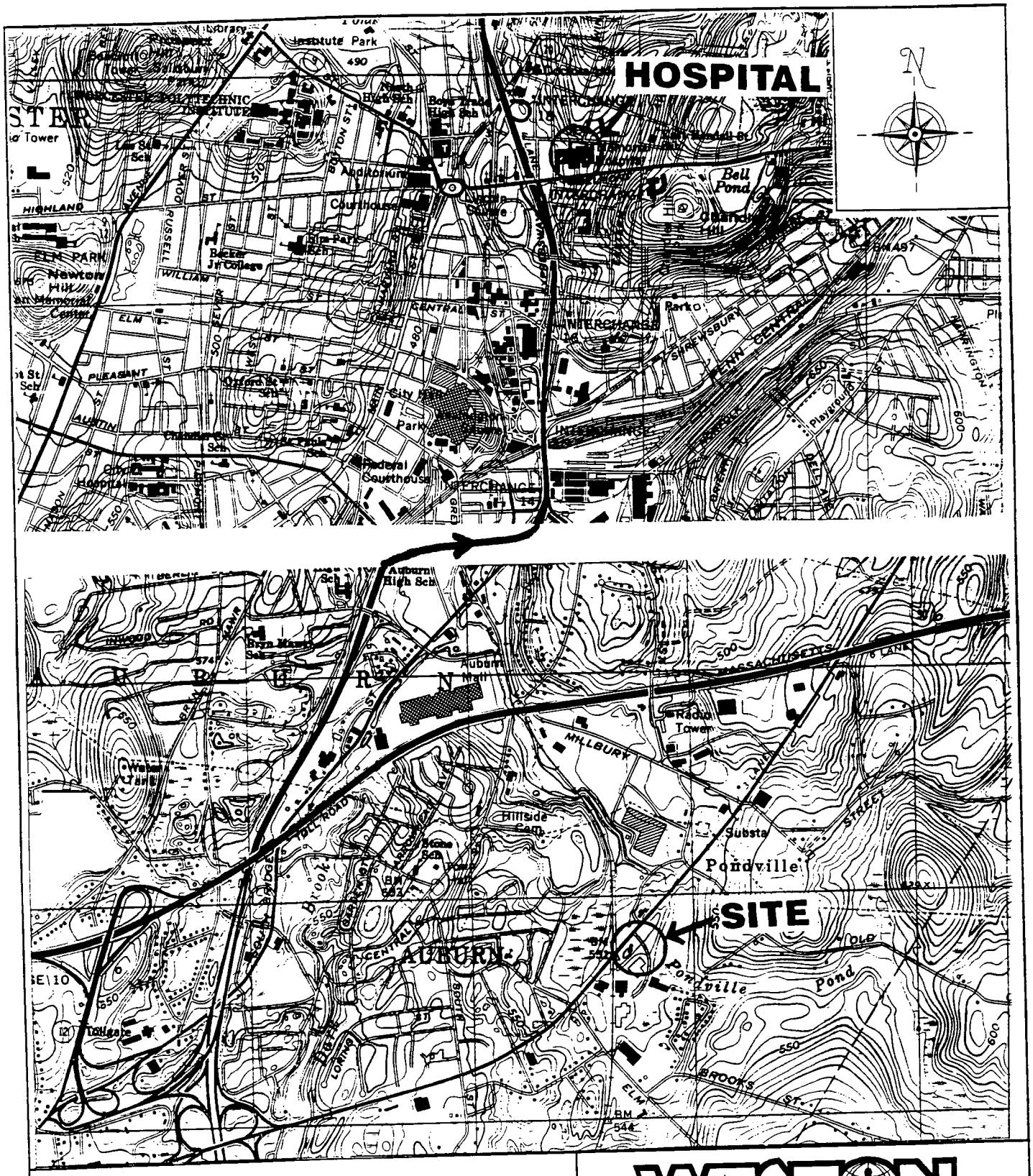
DRAWN BY	DATE	PCS #
S. AMIRAULT	2/95	1192
APPROVED BY	DATE	TDD #
TCJ	2/95	01-9502-09



SCALE 1:24,000

FIGURE 2

HOSPITAL LOCATION MAP
ENVIRO-PLASTIC SITE
AUBURN, MASSACHUSETTS

DIRECTIONS: EXIT SITE, NORTH ON ST. MARK STREET TO RT. 20 WEST (LEFT). FOLLOW TO RT. 290 NORTH. FOLLOW FOR APPROX 5 MILES TO EXIT 17, BELMONT ST. (ROUTE 9 EAST). HOSPITAL IS ON LEFT.

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S. AMIRAULT	2/95	1192
APPROVED BY	DATE	TDD #
	03/95	01-9502-09

3/14/95 Mailing List of Closure Memo and Permit

Closure Memo		Permit
	Higgins DEP	✓
✓	Deloi	✓
✓	Enviro Waters	✓
✓	O'Meara [illegible]	✓
original ✓	File	✓
✓	Metalex	O
✓	Concerned	O

Bob Higgins - MADEP

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